lemon

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ART-4

USER INSTRUCTION

P/N: 24-004-2564-00
Rev1.0

Notice:

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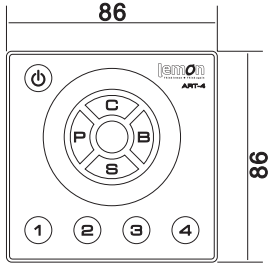
SPECIFICATION

Physical Dimensions

EU version



Technical Specification

Power Supply	DC 12-24V
Housing	Polycarbonate
DMX out	4-pin green terminal
PWM out	6-pin green terminal
Operation Temperature	0 degC to +40 degC
Storage Temperature	-20 degC to + 70 degC
Weight	EU 100g
Dimension	EU 86(L) x86(W) x15.5(H)mm

Setting Color Exchange Fadetime

To set the fadetime for color exchange, you take the following procedures:

- Touch "C" key and hold on for 5 seconds till all LED indicators flash once to indicate the Color Fadetime Setting is engaged. Then release the key and the "C" key flash repeatedly.
- Touch any one of these keys--1, 2, 3, 4, P, C, B or S.
- All indicators flash momentarily once to confirm the setting.
- The existing mode ends and changes to normal mode automatically.

Different keys represent different fadetime. The following table details the fadetime information.

Keys	1	2	3	4	P/C/B/S
Fadetime	1s	2s	3s	4s	0s (no fade time)

Setting Shortcuts

1. "P" + "Power"(⏻) key
   (Press "P" key and "Power" key simultaneously)

- To set power shortcut, touch "P" key and "Power" key at the same time and hold on for about 10 seconds until all keys flash momentarily once to confirm the setting.
- Touch "Power" key. ART-4 changes to standby condition.
- Directly touch any key on the panel. ART-4 starts up.
- To delete power shortcut, touch "P" key and "Power" key simultaneously and hold on for about 10 seconds until all keys flash once.

2. "P" + "S" key *(Press "S" & "P" key simultaneously)*

- Touch "S" key and "P" key simultaneously and hold on for about 10s until all keys flash once to confirm the setting.
- At this time, the "S" key is out of effect, that is to say, Speed Adjustment Menu is not valid. Besides, the figure keys(1, 2, 3 and 4) can only play back saved scenes and colors, but can not record scenes or colors.
- To delete the above setting, touch "P" key and "S" key and hold on for about 10 seconds until all keys flash once.

To delete the above two shortcuts at the same time, touch "P" key and "B" key simultaneously and hold on for about 10s till all indicators flash once. Then release the keys.

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INTRODUCTION

Product Description

Thank you for purchasing our digital product ART-4.You now hold a premiere LED controller with DMX 512/PWM output. Its compact and portable design is convenient to mount and easy to operate for users. It's key features consist of as the following:

- Touch interface
- DMX 512/PWM output
- LED indicator to display the current output
- Four function menus
- To record and play back upto 4 scenes and 4 colors
- To set fadetime for Power on/off and color exchange
- To set fadetime for Power on/off and color exchange in the range of 0 to 4s
- To assign key tone ON/OFF
- To select input voltage in DC12-24V according to the output loading voltage
- Function memory and power failure protection

Unpacking

Check for transport damage.
You should be in possession of the following items:

- 1 ART-4
- 1 User manual

Every ART-4 has been tested at the factory before shipping to you. Please spend a few minutes inspecting the package. Should you discover any transport damage after unpacking the equipment, inform the hauler immediately. Never connect a damaged device. You may also contact your supplier.

Color Playback

In Manual mode, you play back the recorded colors as you wish. To play back the recorded color, simply follow the procedures below:

- Touch "C" key to enable Manual Mode, the key clicks and the indicator is lit.
- To select the recorded color which you wish to play back, touch any of the figure keys to which you've saved colors. The key clicks and it's LED indicator is lit. Then it starts to display the recorded colors.

SETUP

Setting Key Tone

To turn on or turn off key tone, keep the four figure keys--"1", "2" , "3" and "4" touched simultaneously until all keys flash momentarily once to confirm the setting, then release them.

With key tone ON, when you rotate the touch toggle to the maximum or minimum value, the key click disappears.

With key tone OFF, when you rotate the touch toggle to the maximum or minimum value, all keys flash repeatedly 3 times.

Setting Power on/off Fadetime

To set power on/off fadetime, follow the procedures below:

- Touch "Power" key(⏻) and hold on for 5 seconds till all LED indicators flash once to indicate the Power on/off Fadetime Setting is engaged. Then release the Power key and the key flashes repeatedly.
- Touch any one of these keys--1, 2, 3, 4, P, C, B or S.
- All indicators flash momentarily once to confirm the setting.
- The existing mode ends and changes to normal mode automatically.

Different keys represent different fadetime. The following table details the fadetime information.

Keys	1	2	3	4	P/C/B/S
Fadetime	1s	2s	3s	4s	0s (no fade time)

Scene Record

In Auto mode, you record a scene to the desired figure key as you wish. The procedure to record a scene is described below:

a. Touch "P" or "S" key to enable Auto Mode, the key clicks and the LED indicator is lit.

b. Rotate the touch toggle to select the built-in program or adjust the speed.

c. Touch any of the figure keys to which you wish to record the scene, and hold on for more than 2 seconds.

d. All indicators flash momentarily once to indicate the current parameters (including the built-in program and the value of speed and brightness) have been recorded and saved into the key.

e. Repeat step a~d to save more scenes to the other 3 figure keys.

Scene Playback

In Auto mode, you play back the recorded scenes as you wish. To play back the recorded scene, simply follow the procedures below:

- Touch "P" or "S" key to enable Auto Mode, the key clicks and the LED indicator is lit.
- To select the recorded scene which you wish to play back, touch any of the figure keys to which you have saved scenes. The key clicks and it's LED indicator is lit. Then it starts to display the recorded scene.

Manual Mode

In Manual Mode, the RGB value and brightness can be adjusted. Up to 4 colors can be recorded and played back in this mode. Each figure key corresponds to one color.

Color Record

In Manual mode, you can record a color to the desired figure key. The procedure to record a color is described below:

a. Touch "C" key to enable Manual Mode, the key clicks and the indicator is lit.

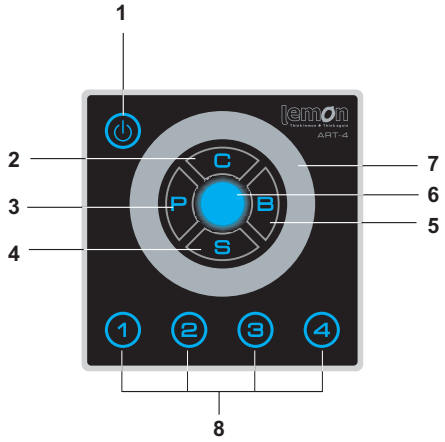
b. Rotate the touch toggle to adjust RGB value until you get desired color.

c. Touch any of the figure keys to which you wish to record the color, and hold on for more than 2 seconds.

d. All indicators flash momentarily once to indicate the current parameters, including the value of color and brightness, have been saved into the key.

e. Repeat step a~d to save more colors to the other 3 figure keys.

Touch Interface View



ART-4 (EU)

1. Power key
   To power on/off ART-4.

Menu keys:

2. "C" key
   To select Color menu.

3. "P' key
   To select Built-in program menu.

4. "S" key
   To select Speed adjustment menu.

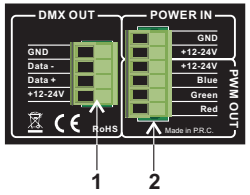
5. "B" key
   To select Brightness adjustment menu.

6. Output Indicator
   To display the current output.

7. Touch toggle
   To adjust color, brightness and speed, and select built-in programs.

8. figure keys (1~4)
   To record scene and color, as well as set fadetime.

Rear Panel View



1. DMX out: 4-pin male terminal
2. PWM out & Power in: 6-pin terminal

OPERATION

Powering ART-4

ART-4 can be connected to a DC power at any voltage from 12V to 24V. Once the unit is connected to a main power, all the LED indicators flash momentarily and the unit is powered on.

In normal mode, to touch power key (⏻) and hold on for 2s, ART-4 switches to the state of standby. At this time, the output is shut down. Touch the power key once again and hold on for 2s, the unit is powered on.

Four Function Menus

ART-4 contains 4 function menus, available in Built-in program selection, Color selection, Brightness adjustment and Speed adjustment.

Built-in Program Menu

In Built-in Program Menu, there are 10 built-in programs and Auto Program ("Auto Program" is the sequential running of these 10 built-in programs). To select desired built-in program in this mode, you proceed as the following:

- Touch "P" key to enable Built-in Program Menu, the key clicks and the indicator is lit.
- Rotate the touch toggle to select a desired built-in pattern.

The process of selecting the built-in programs produces clicks and each click will activate one program. When reaching Auto program or the 1st program, the click disappears.

Brightness Adjustment Menu

In Brightness Adjustment Menu, it allows you to adjust the brightness by rotating the touch toggle. You change the brightness as the following:

- Touch "B" key to enable Brightness Adjustment Menu, the key clicks and the indicator is lit.
- Rotate the touch toggle to adjust brightness as you wish. In clockwise, the brightness increases; In anti-clockwise, the brightness decreases.

Color Menu

In Color Menu, you adjust RGB value to get a desired color by rotating touch toggle. To adjust RGB value, you take the following procedure:

- Touch "C" key to enable Color Menu, the key clicks and the indicator is lit.
- Rotate the touch toggle to adjust RGB value.

Speed Adjustment Menu

In Speed Adjustment Menu, you adjust the speed of running built-in programs in the range of 0.2s~10min. You set the speed as the following:

- Touch "S" key to enable Speed Adjustment Menu, the key clicks and the indicator is lit.
- Rotate the touch toggle to adjust the speed. In clockwise, the speed will increase; In anti-clockwise, the speed will decrease.
- When you rotate the toggle to reach 10min, the click disappears and all the four figure keys flash repeatedly. Then you select the speed which you wish by touch any of the figure keys. Different figure keys stand for different speed -- "1" for 10min, "2" for 20min, '3" for 30min and "4" for 40min.

The value of color and brightness can be adjusted in the range of 0 to 255.

In the process of adjusting brightness and speed, the toggle produces clicks. However, the click disappears when the toggle reaches the maximum /minimum value.

Two Modes

ART-4 has the following two modes: Auto Mode and Manual Mode.

Each figure key can have a scene, or a color, or both elements recorded.

Auto Mode

In Auto Mode, ART-4 runs built-in programs automatically. The speed and brightness can be adjusted. Up to 4 scenes can be recorded and played back in this mode. Each figure key corresponds to one scene.